

FIG. 1

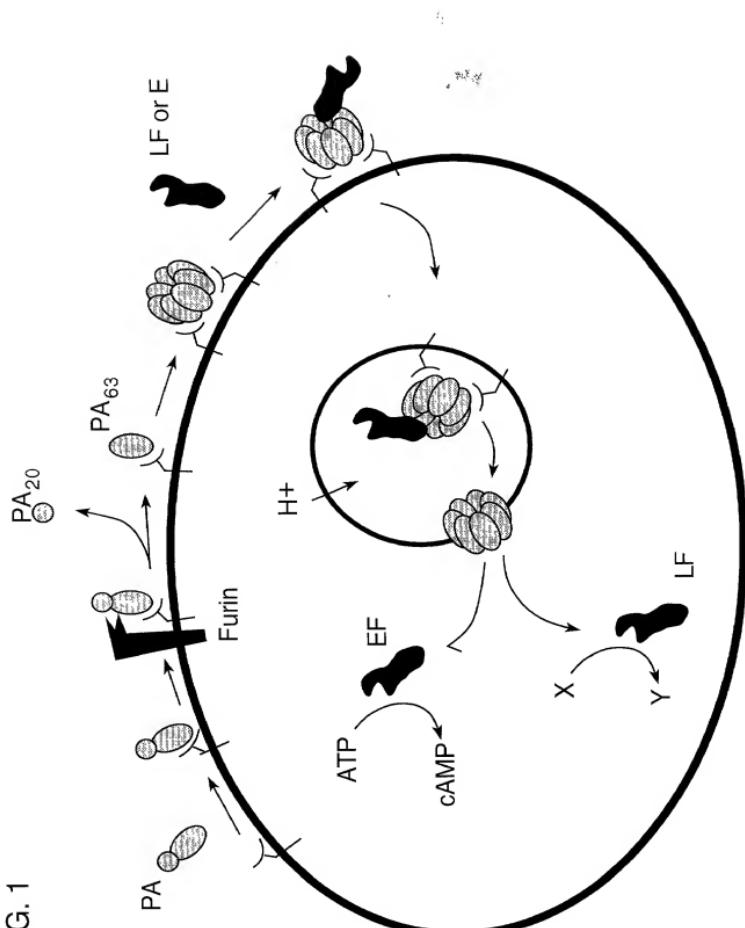


FIG. 2A

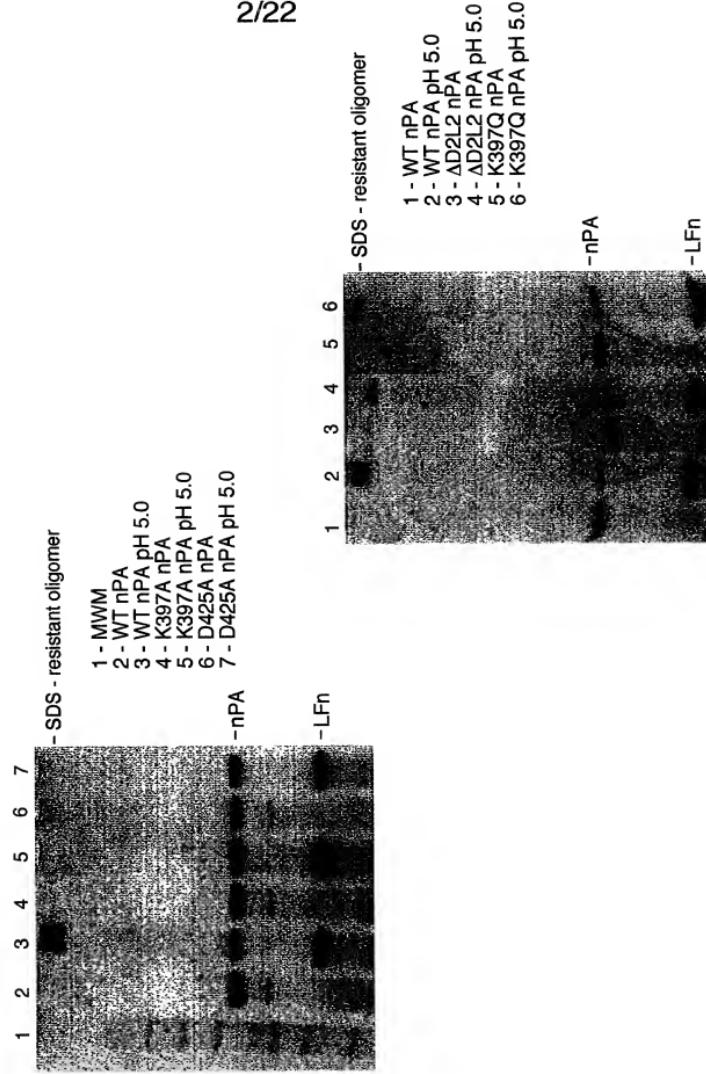


FIG. 2B

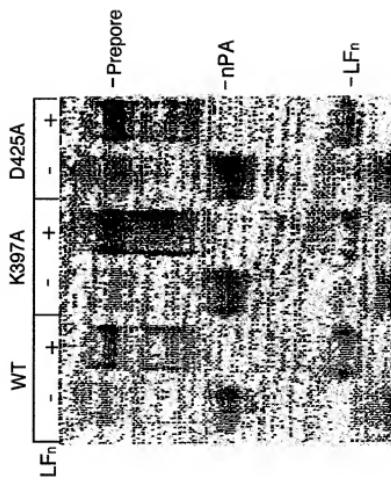


FIG. 3

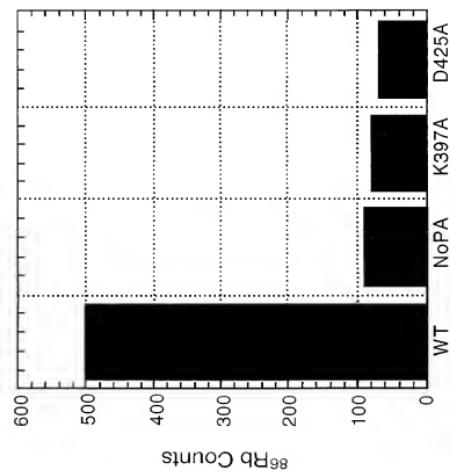


FIG. 4

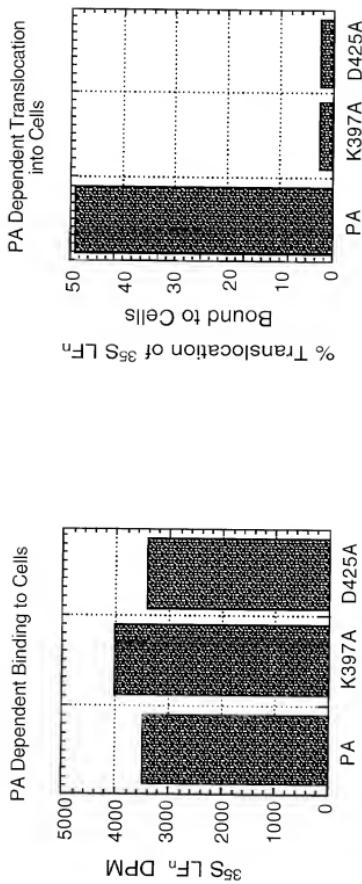


FIG. 5

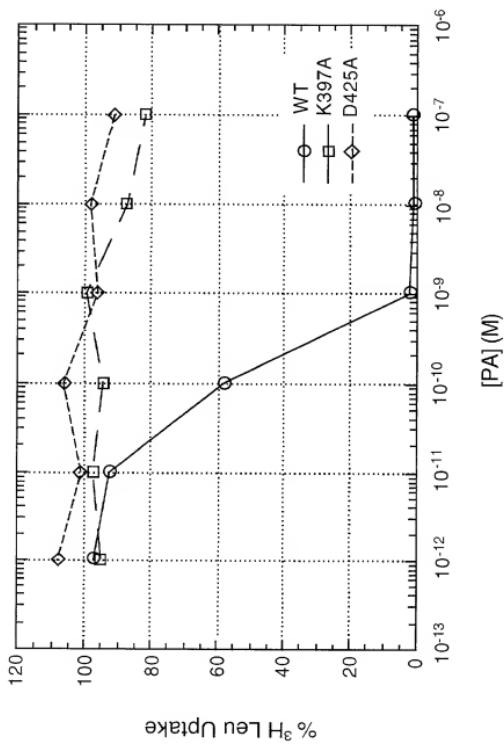


FIG. 6

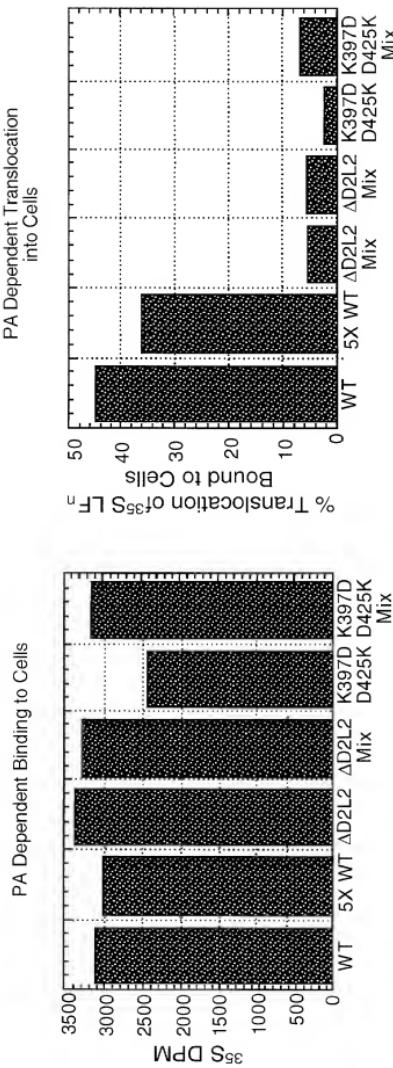


FIG. 7

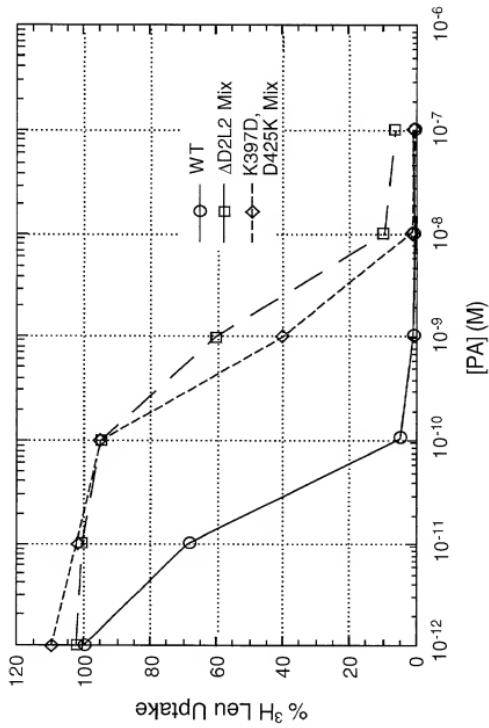
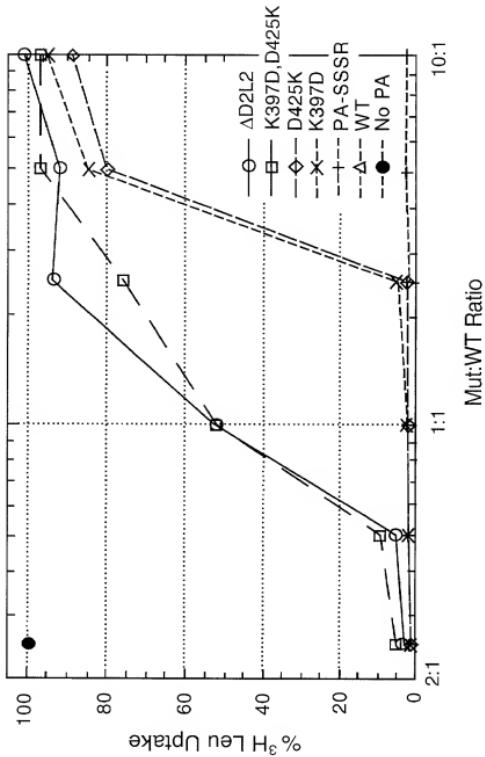


FIG. 8A



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FIG. 8B

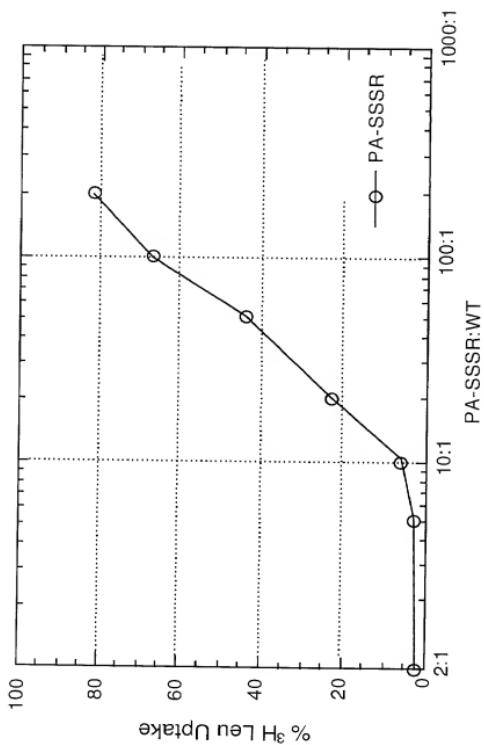


FIG. 9

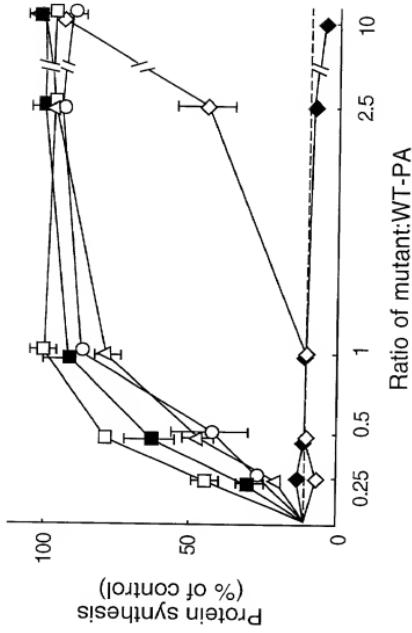
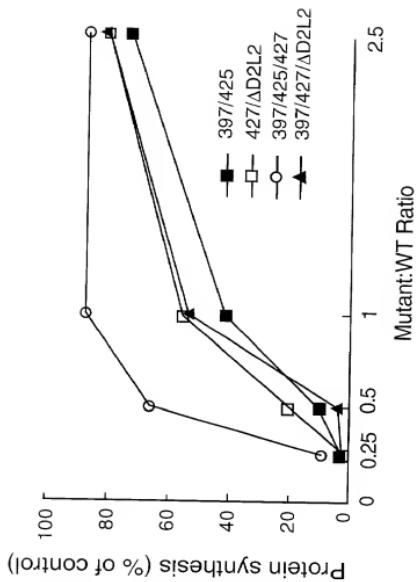


FIG. 10



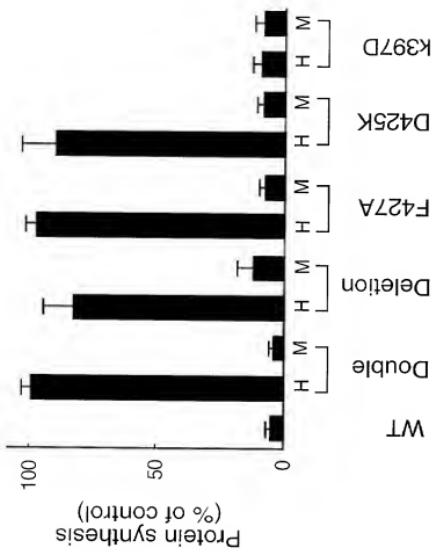


FIG. 11

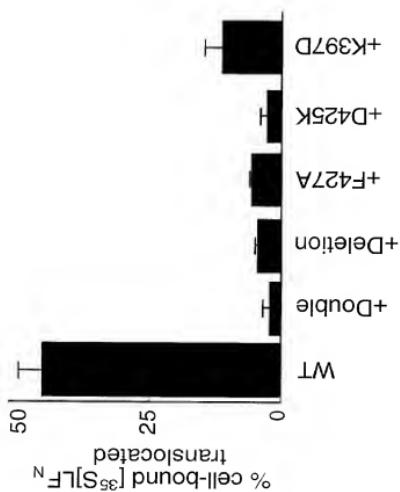


FIG. 12

FIG. 13

Figure 13: SEQ ID No.: 21

EVKQENRLNESESSSQGLLGYYFSDLNFQAPMVVTSSSTGDLSSIPSELENIPSEN
QYFQSAIWSGHPIKVKKSDEYTFAT
TSADNHVTMWDQEVINKASNINSKRLKGRLYQKIQYQRENPTEKGLDFKL
YWTDSQNKKKEVISSDNLQPELKQKS
SNSRKKRSTSAGPTVPLRNDGIPDSLEVEGYTVDKNKRTEFLSPWISNTHEKGKG
LTJKYKSSEKWSTASDPSYDFSEKFT
GRUDKAVNSPEARHPLYAAYPVHVDWENILSKNEDQSTQNTDSETRISKNTSTS
RHTTSEVIGHNAEVHASSFDIGGSV
SAGFNSNSNSTVAJDHSLSLAGERTWAETMGLNTADTARLNANRYVNTGTAPTY
LSQLAPNNYYPSKNLAPIALNAQDDFSSTPTIMNNYNQFLELETKQLRLDTDQV
YGNIATYFENGVRVDTGSNWSEV
LPQIETTARUFGNGKDLNLVERRIAAVNPSDPLETTKPDMLTKEALKIAFGFNFPN
GNLQYQGKDTEFDNFDDQOQSQ
NIKNQLAELNATNITYTVLDKIKLNAMNLLRDKRFHYDRNNIAVGADESVVKEA
HREVINSSTEGLLNIIDKDIRKILS
GYTVEEDTEGLIKEVINDRYDMLNISLQRDGKTFDFKKYNDKPLYISNPNEYKV
NYYAVTKENTINNSENGDTSNG
IKLILFSKKGYEIGZ

FIG. 14

Figure 14: SEQ ID No.: 22

GAAGTTAACAGGAGAACCGGTATTAAATGAATCAGAATCAAGTCCCAGG
 GGTTACTAGGATACTATTTAGTGATT
 GAATTTCAGCACCACGGTGGTTACCTCTTCACTACAGGGGATTATCTA
 TTCTCTAGTCTGAGTTAGAAAATATC
 CATCGGAAAACCAATATTTCAATCTGCTATTGGTCAGGATTATCAAAGTT
 AAGAAGAGTGTGATGAATACATTGCT
 ACTTCGCTGATAATCATGAAACATGTGGTAGATGACCAAGAAGTGTGATTA
 ATAAAGCTCTAATTCTAACAAAATCAG
 ATTAAGAAAAGGAGAAGATTATCAAAATAAAATTCAATATCAACGAGAAAAT
 CCTACTGAAAAGGATGGATTCTAACAGT
 TGACTGGACCGATTCTAAAATAAAAGAAGTGATTCTAGTGATAACCT
 ACAATTGCCAGAATTAAAACAAAATCT
 TCGAAGCTAACGAAAAAAAGCGAACAGTACAGTGTGGACCTACGGTCCAGACC
 GTGACAATGATGGAATCCCTGATTCT
 AGAGGTAGAAGGAGATACGGTGATGTCAAAAATAAAAGAACCTTCTTCA
 CCATGGATTCTAATATTGAAAGA
 AAGGATTAACCAAATATAATCCTCCTGAAAAATGGAGCACGGCTCTGA
 TCCGTACAGTGATTTCGAAAAGGTACAG
 GGACGGATTGATAAGAATGTATCACCGAGGCAAGACACCCCTTGTGGCAG
 CTTATCCGATTGTACATGTAGATATGGA
 GAATATTCTCTCAAAAATGGAGGATCAATCCACACAGAATACTGATAGT
 GAAAGCAGAACAAATAAATGAAATACTT
 CTACAAGTAGGACACATACTAGTGAAAGTACATGGAAATGCAGAAGTGCATGC
 GTCTGTTCTTGATATTGGGGAGTGT
 TCTGCAGGATTAGTAACTCGAATTCAAGTACGGTCGCAATTGATCATTCACT
 ATCTCTAGCAGGGGAAAGAACATGGGC
 TGAACAAATGGGTTAAATACCGCTGATACAGCAAGATTAAATGCCAATATT
 AGATATGTAATACTGGGACGGCTCAA
 TCTACAACGGTGTACCAACGACTCTGTTAGTGTAGGAAAAATCAAACACT
 CGCGACAATTAAGGCTAAGGAAAACCA
 TTAAAGTCAAATACTGCACTAATAATTATTCCTCTAAAAACTTGGCGCC
 AATCGCATTAAATGCACAAGACGATT
 CAGTTCTACTCCAATTACAATGAATTACAATCAATTCTTGAGTTAGAAAAAA
 CGAAACAAATAAGATTAGATACGGATC
 AAGTATATGGGAATATGCAACATACATTTGAAAATGGAAGAGTGAGGGT
 GGATACAGGCTCGAAGTGGAGTGAAGTG
 TTACCGAAATTCAAGAACAACTGCACGTATCATTTAATGGAAAAGATT
 AAATCTGGTAGAAAGCGGGATAGCGGC
 GGTAAATCTAGTGTACCTTAAAGAACGACTAAACCGGATATGACATTAAAA
 GAAGCCCTAAAATAGCATTTGGATT
 ACGAACCGAATGGAACCTACAATATCAAGGGAAAGACATAACCGAATTG
 ATTTAATTTCGATCAACAAACATCTCAA
 AATATCAAGAACATCAGTTAGCGGAATTAAACGCAACTAACATATACTGTAT
 TAGATAAAATCAAATTAAATGCAAAAT

FIG. 14 (CONTINUED)

GAATATTTAATAAGAGATAAACGTTTICATTATGATAGAAAATAACATAGCA
GTTGGGGCGGATGAGTCAGTAGTTAAGG
AGGCTCATAGAGAAGTAATTAAATCGTCAACAGAGGGATTATTGTTAAATAT
TGATAAGGATAAAGAAAATATTATCA
GGTTATGTTAGAAATTGAAGATACTGAAGGGCTTAAGGAAGGTTAAATATG
ACAGATATGATAATGTTGAATATTCTAG
TTTACGGCAAGATGAAAAACATTITATAGATTTTAAATGATAAA
TTACCGTTATATATAAAGTAATCCAAATT
ATAAGGTAAAATGTTATGCTGTTACTAAAGAAAACACTATTAAATCTAGT
GAGAAATGGGATACTAGTACCAACGGG
ATCAAGAAAATTTAATCTTTCTAAAGGCTATGAGATAGGATAA

FIG. 15

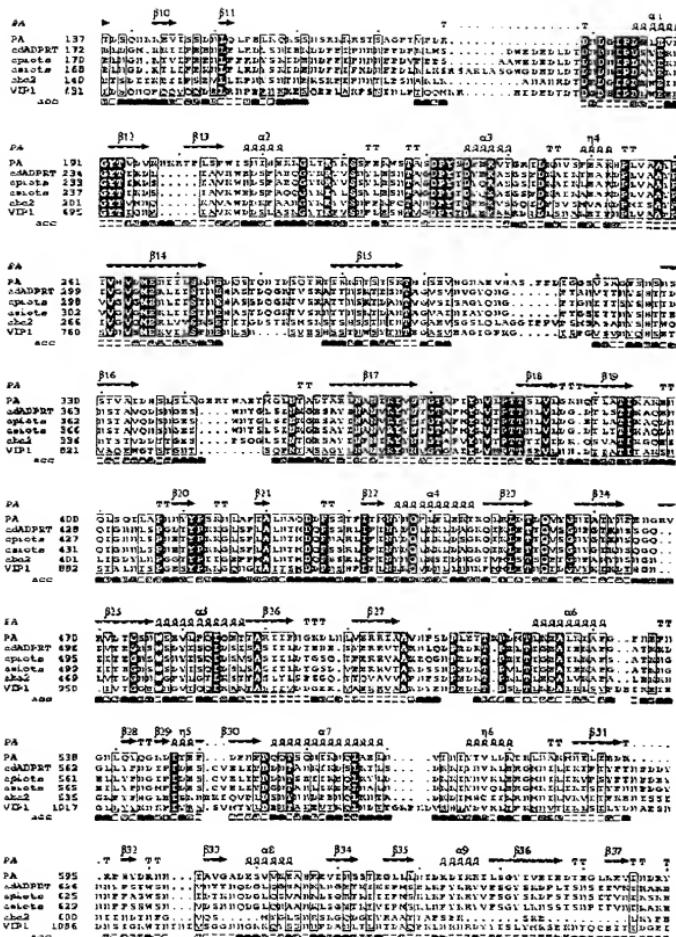


FIG. 15 (CONTINUED)

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FIG. 16

80

7

PA
cad55RT
cplcts
cplcts
chc2
VP1
ENALENGKKEEHEEWALIATAYEAGHMHNLHNDHATHYKREITYSIAGSFEDIEKDLKEDHMDFTLHS

84

102

PA

PA

PA
cdADDR7
spacts
cictots
clad
V11 CGHFPFGIQISLFLPSLNDPFEQFLNTIHLDRGKRTSLSSERLRAFGSERIILRLQVFRG5TGAYLSAI

28

PA 

FIG. 16 (CONTINUED) 21/22

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FIG. 16 (CONTINUED)

PA	TT	§40	n?	TT
	69		700	710
PA				
adADPRTYHDELFLLTYSFHNFVXVB.....	VVAVILTEKIRHSEHNGYING.	
epicots	DANKHYVADLSEFDFDGHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF			
scicots	DANKHYVADLSEFDFDGHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF			
shc2LHMLHLYSSEPHDQHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF	FHNGSSEPHDQHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF	
VIP1	SHYGKELDGEGLIIGRGGHIGLGEFHNEASPHFQHIVKIEVITVSSQHDMHDTLESDKHYNGYH			
PA	M1	G10	TT	TT
	730	740		
PA				
adADPRTYHDELFLLTYSFHNFVXVB.....	YATTFDDEELLVLVSD	
epicots	NOFKYHIVHLSRSTTGTGENHMTYKHL.....		NOFKYHIVHLSRSTTGTGENHMTYKHL.....	
scicots	NOFKYHIVHLSRSTTGTGENHMTYKHL.....		NOFKYHIVHLSRSTTGTGENHMTYKHL.....	
shc2LHMLHLYSSEPHDQHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF	FHNGSSEPHDQHLYLHGFPTOTNHEALDLYIQHNVVEATLOVSQFEDGKEDKEMHLYLGDF	
VIP1	SHYGKELDGEGLIIGRGGHIGLGEFHNEASPHFQHIVKIEVITVSSQHDMHDTLESDKHYNGYH			